

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A network comprising:

a bus through which data is transmitted; and

a plurality of network devices connected to the bus,

wherein ~~at least one~~ a first network device of the plurality of network devices

includes a measurement portion that measures a first variable in a predetermined measurement cycle and a data output portion that outputs a first result measured by the measurement portion on the bus, and

wherein ~~at least a second one~~ a second network device of the plurality of network devices includes a detecting portion that detects the predetermined cycle from a plurality of timings when the result is output on the bus, a measurement section that measures a second variable at measurement timings based on the predetermined cycle, and a data output section that outputs a second result measured by the measurement section on the bus when the bus is idle.

2. (Currently amended) A network including comprising:

a bus through which data is transmitted; and

a plurality of network devices connected to the bus,

wherein ~~at least one~~ a first network device of the plurality of network devices

includes a measurement portion that measures a variable at measurement timings based on a predetermined reference timing and a data output portion that adds measurement timing information to a first result measured by the measurement portion and outputs the first result on the bus when the bus is idle.

3. (Currently amended) The network according to Claim 2, wherein ~~at least a second~~
~~one~~ a second network device of the network devices includes a measurement section that
measures a second variable at measurement timings based on the measurement timing
information added to the first result with respect to a base time when the first result is output, and
a data output section that outputs a second result measured by the measurement section on the
bus when the bus is idle.

4. (Original) The network according to Claim 2, wherein the predetermined
reference timing is a timing generated by at least one of the network devices.

5. (Original) The network according to Claim 2, wherein the predetermined
reference timing is a timing when a certain network device, among the plurality of network
devices, outputs a signal on the bus.